

10242000 COAL CREEK NEAR CEDAR CITY, UT

LOCATION.--Lat $37^{\circ}40'20''$, long $113^{\circ}02'02''$, in SE $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 13, T. 36 S., R. 11 W., Iron County, Hydrologic Unit 16030006, on right bank, 1.2 mi east of Cedar City, and 3.7 mi downstream from the mouth of Right Hand Creek.

DRAINAGE AREA.--80.9 mi².

PERIOD OF RECORD.--May to September 1915 (gage heights and discharge measurements only), October 1915 to July 1916, September 1916 to July 1918, September 1918 to November 1919, May 1935 to September 1937, April 1938 to current year. Records prior to November 1919 exclude flow of power canal; records would be equivalent if flow in canal were added.

REVISED RECORD.--WSP 1714: Drainage area.

GAGE.--Water-stage recorder. Crest-stage gage since Aug. 1, 1989. Concrete control since July 1972, rebuilt July 29, 1988. Elevation of gage is 6,000 ft above sea level, from topographic map. Prior to Mar. 30, 1939, nonrecording gages and Mar. 30, 1939 to May 14, 1945, water-stage recorder at several sites about 0.5 mi upstream at various datums. May 15, 1945 to Oct. 10, 1951, May 4 to July 2, 1952, water-stage recorder at site 2 mi upstream at different datum. July 3, 1952 to Nov. 17, 1967, water-stage recorder at site 600 ft upstream at different datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. No diversion above station for irrigation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,620 ft³/s July 23, 1969, gage height, 11.67 ft from flood-mark, based on slope-area measurement of July 16, 1967 and applied to site and datum now in use; minimum, 0.3 ft³/s Nov. 5, 14, 17, 26, 1959, Feb. 17, 1960, Feb. 24, 1961.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 550 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sept. 26	0440	a*532	*6.81				

^a From rating curve extended above 420 ft³/s on basis of slope-area measurement.

Minimum recorded discharge, 8.1 ft³/s Dec. 22, but could have been less during period of estimated record in Dec., Jan., or Feb.

DIISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e9.0	e11	12	12	e13	e10	34	111	e47	14	11	e10
2	e9.0	e11	12	12	e13	e11	28	96	46	14	11	e11
3	e10	e12	e11	42	e13	e12	29	111	43	14	11	e13
4	e9.0	e13	e12	19	e12	e11	27	122	40	13	22	e130
5	e9.0	e14	13	13	e12	e11	25	138	39	13	14	e20
6	e9.0	e13	13	e12	e11	e12	23	165	36	13	11	e15
7	e9.0	e13	12	e12	e10	e12	23	177	33	e14	11	e12
8	e9.0	e13	12	e12	e11	e13	23	130	34	e14	11	e11
9	e9.0	13	14	12	e11	e13	25	115	33	e13	21	e100
10	e9.0	13	15	13	e11	e14	24	105	31	e12	85	e20
11	e9.0	12	13	13	e12	e15	24	105	27	12	14	e12
12	e9.0	12	13	12	e12	e15	24	113	26	12	14	e10
13	e9.0	11	13	12	e11	e14	23	115	28	12	12	e10
14	e10	11	12	e11	e10	e16	31	115	34	11	11	e10
15	e10	11	e8.3	e11	e11	e16	39	104	36	11	10	e80
16	e10	10	e12	e11	e11	e18	44	94	31	11	10	e16
17	e9.0	10	e11	e10	e12	20	50	90	26	11	10	12
18	e10	11	e10	e12	e12	28	59	87	24	11	10	12
19	e10	11	e9.0	13	e12	35	73	84	22	11	10	11
20	e10	11	e10	16	e12	39	82	85	21	11	10	10
21	e10	12	e10	13	e11	36	101	79	21	11	9.8	10
22	e10	102	10	12	e11	33	109	72	20	11	e9.7	9.8
23	e10	30	11	13	e11	32	103	65	19	11	e10	9.6
24	e10	18	e11	12	e10	29	75	74	18	11	e10	9.6
25	e11	18	11	12	e10	24	64	66	17	11	e10	10
26	e10	14	11	13	e11	28	75	57	16	11	e10	158
27	e11	10	11	13	e12	33	103	53	16	17	e10	33
28	e11	13	12	12	e11	41	120	e52	16	14	e10	22
29	e11	13	11	e12	--	43	128	e51	15	13	e10	21
30	e11	12	11	e11	--	36	118	e50	14	12	e10	22
31	e11	--	12	e12	--	36	--	e48	--	12	e10	--
TOTAL	303.0	478	358.3	415	319	706	1706	2929	829	381	428.5	830.0
MEAN	9.77	15.9	11.6	13.4	11.4	22.8	56.9	94.5	27.6	12.3	13.8	27.7
MAX	11	102	15	42	13	43	128	177	47	17	85	158
MIN	9.0	10	8.3	10	10	10	23	48	14	11	9.7	9.6
AC-FT	601	948	711	823	633	1400	3380	5810	1640	756	850	1650

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1997, BY WATER YEAR (WY)

MEAN	12.4	11.4	10.2	9.96	11.8	18.0	55.9	144	69.6	22.2	17.3	13.6
MAX	38.4	24.1	21.3	17.7	18.6	39.5	140	489	428	69.9	59.7	37.1
(WY)	1973	1988	1984	1984	1947	1995	1985	1973	1983	1983	1968	1967
MIN	6.17	5.95	5.78	6.41	7.40	9.10	17.1	19.0	11.6	7.61	5.94	6.33
(WY)	1991	1978	1991	1951	1960	1951	1975	1977	1989	1959	1960	1956

SUMMARY STATISTICS FOR 1996 CALENDAR YEAR FOR 1997 WATER YEAR WATER YEARS 1939 - 1997

ANNUAL TOTAL	6158.7	9682.8				
ANNUAL MEAN	16.8	26.5				
HIGHEST ANNUAL MEAN			33.2			
LOWEST ANNUAL MEAN			86.0			
HIGHEST DAILY MEAN			11.4			
LOWEST DAILY MEAN	8.0	Aug 20	1080	May 31 1983		
ANNUAL SEVEN-DAY MINIMUM	8.1	Aug 17	2.1	Nov 3 1990		
ANNUAL RUNOFF (AC-FT)	12220	19210	2.5	Oct 28 1990		
10 PERCENT EXCEEDS	31	75	24020			
50 PERCENT EXCEEDS	12	12				
90 PERCENT EXCEEDS	8.5	10				

e Estimated